Customer No.: 31561 Application No.: 10/605,034 Docket No.: 10231-US-PA

#### REMARKS

### Present Status of Application

The Office Action dated March 6, 2006, rejected claims 3 and 11 under 35 U.S.C. 112, second paragraph, as being indefinite. Claims 1, 3-9, and 11-19 were rejected under 35 U.S.C. 103(a) as being unpatentable over Sugahara (US Patent No. 6,037,646) in view of Pierson (US Patent No. 6,569,710).

Claims 1, 9 and 14 have been amended for providing more descriptions, while claims 3, 11 and 16 have been cancelled. No new matter has been added to the application by the amendments made to the specification, claims and drawings. This Amendment is promptly filed to place the above-captioned case in condition for allowance. After entering the amendments and considering the following discussions, a notice of allowance is respectfully solicited.

# Discussions for 112 rejections

Claims 3 and 11 were rejected under 35 U.S.C. 112, second paragraph, as being indefinite.

Claims 3 and 11 have been cancelled.

Withdrawal of this rejection is respectfully requested.

## Discussion for 103 rejections

Claims 1, 3-9, and 11-19 were rejected under 35 U.S.C. 103(a) as being unpatentable over Sugahara (US Patent No. 6,037,646) in view of Pierson (US Patent No.

MAY-10-2006 WED 12:12 FAX NO. P. 07/09

Customer No.: 31561 Application No.: 10/605,034

Docket No.: 10231-US-PA

6,569,710).

Claims 1, 9 and 14 have been amended to provide more descriptions and define

more clearly according to this invention. Claims 3, 11 and 16 have been cancelled.

Supporting grounds for these amendments can be found at least in the second paragraph

of page 6 and figure 3 and 3A in the specification as well as figures 7 and 8. It is believed

that no new matter has been added by the amendments made to the claims.

Applicants submit that independent claims 1, 9 and 14 patently define over the

prior references for at least the reason that the cited art fails to disclose each and every

feature as claimed in the present invention.

Claim 1 teaches, among other things, "...disposing a stiffener on the matrix

substrate, .... wherein the stiffener has a top portion, sidewalls and a flange portion, and

has a plurality of openings on the top portion ... " while claims 9 and 14 recites at least

"...a stiffener, disposed above and unattached to the (thin) substrate...".

However, Sugahara does not teach or disclose the above-mentioned claimed

features. Instead, Sugahara teaches a BGA package 11, wherein the cover member 11k is

laminated directly to the surface of the board 11a, and the chip 10 is mounted on the

surface of the board 11a. As taught by Sugshara, "the cover member 11k does not allow

the molten resin to penetrate into the gaps between the via-hole plugs 11d and the

insulating board 11a" (col. 5, lines 3-10), the cover member 11k is a flat plate (as shown

in figures 2-3) tightly adhered to the flat board 11a for stopping the overflow resin.

Clearly, the cover member 11k is configured differently and can not be considered

comparable to the stiffener of this invention.

**-6-**

PAGE 7/9 \* RCVD AT 5/10/2006 12:09:25 AM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-1/16 \* DNIS:2738300 \* CSID: \* DURATION (mm-ss):02-32

Customer No.: 31561 Application No.: 10/605,034 Docket No.: 10231-US-PA

As a result, Sugahara fails to teach or disclose all the limitations as recited in

amended claims 1, 9 and 14.

The Office Action further relied on Pierson for teaching more than one chips and

dicing the substrate.

Applicants respectfully disagree and would like to point out that even though the

Office Action relied upon Pierson for teaching the above-mentioned features, Pierson still

fails to cure the specific deficiencies of Sugahara.

Pierson merely discloses laminating a stiffener panel 21 to the base plate 22 and

then attaching a claming plate 33 to the laminated structure. From figures 8 and 12 and

the related descriptions (col. 5, lines 38-40), the stiffener plate 21 obviously is a flat plate

having the same dimensions as the base plate 22 and adhered to the base plate 22.

Therefore, even considering Pierson discloses more than one chips and the dicing step,

the combination of Pierson and Sugahara fails to teach or suggest each and every feature

recited in amended independent claims of this application.

Accordingly, it is respectfully submitted that dependent claims 4-8, 12-13, 15 and

18-19 patentably distinguish over the cited references, either alone or in combination, for

at least the reasons stated above as well as for the additional features that these claims

recite.

Reconsideration and withdrawal of these rejections under 35 USC 103(a) are

respectfully requested.

-7-

PAGE 8/9 \* RCVD AT 5/10/2006 12:09:25 AM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-1/16 \* DNIS:2738300 \* CSID: \* DURATION (mm-ss):02-32

Customer No.: 31561 Application No.: 10/605,034 Docket No.: 10231-US-PA

### CONCLUSION

In view of the foregoing, it is believed that all pending claims are in proper condition for allowance. If the Examiner believes that a telephone conference would expedite the examination of the above-identified patent application, the Examiner is invited to call the undersigned.

Date: May 10,2006

MAY-10-2006 WED 12:13

Respectfully submitted,

Registration No.: 46,863

Jianq Chyun Intellectual Property Office 7th Floor-1, No. 100 Roosevelt Road, Section 2 Taipei, 100 Taiwan

Tel: 011-886-2-2369-2800 Fax: 011-886-2-2369-7233

Email: belinda@jcipgroup.com.tw Usa@jcipgroup.com.tw